

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Hideki KOMATSUDA

Application No.: Rule 53(b) Continuation of Application No. 10/090,731 filed March 6, 2002

Filed: October 27, 2003

Docket No.: 105193.07

For: ILLUMINATION SYSTEM AND EXPOSURE APPARATUS AND METHOD

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 C.F.R. §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached.
- ☒ 3. English-language Abstracts of the newly-cited non-English language references (listed on sheet 7 of 7 of the PTO-1449) are attached hereto.
- ☒ 4. With the exception of the references listed on PTO-1449 sheet 7 of 7, the references were cited by or submitted to the Office in parent application No. 10/090,731, filed March 6, 2002, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, except for the non-English references listed on PTO-1449 sheet 7 of 7, copies of these references are not attached. 37 CFR §1.98(d).

Respectfully submitted,



Mario A. Costantino

Registration No. 33,565

MAC/ccs

Date: October 27, 2003

OLIFF & BERRIDGE, PLC

P.O. Box 19928

Alexandria, Virginia 22320

Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE
AUTHORIZATION

Please grant any extension
necessary for entry;

Charge any fee due to our
Deposit Account No. 15-0461

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		5,669,708	09-1997	Mashima et al.		
		5,677,939	10-1997	Oshino		
		4,734,829	03-1988	Wu et al.		
		5,512,759	04-1996	Sweatt		
		5,098,184	03-1992	van den Brandt et al.		
		6,195,201 B1	02-2001	Koch et al.		
		6,198,793 B1	03-2001	Schultz et al.		
		3,267,802	08-1966	M.L. Noble		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
		EP 1 024 408 A2	08-2000	Europe		
		EP 0 744 641 A2	11-1996	Europe		
		JP-A-5-100097	04-1993	Japan (with abstract)		
		JP-A-56-81813	07-1981	Japan (with abstract)		
		JP-A-9-326352	12-1997	Japan (with abstract)		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						

EXAMINER	DATE CONSIDERED
----------	-----------------

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		3,296,923	01-1967	J.R. Miles			
		5,684,566	11-1997	Stanton			
		5,594,526	01-1997	Mori et al.			
		5,760,963	06-1998	Mori			
		5,739,899	04-1998	Nishi et al.			
		3,941,475	03-1976	Sheets			
		2,991,691	07-1961	H. Schering			
		3,555,987	01-1971	I. Browning			
		1,333,304	02-1920	H.P. Page			
		1,342,894	06-1920	L.W. Bugbee			
		1,633,228	06-1927	E.C. Rogers			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		741,246	11-1955	Great Britain			
		818,229	08-1959	Great Britain			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER				DATE CONSIDERED			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		1,762,932	06-1930	J. Mihalyi			
		2,183,249	12-1939	H. Schering et al.			
		2,186,123	01-1940	K. Rantsch et al.			
		2,195,184	03-1940	R.G. Mobarry			
		2,202,061	05-1940	R.G. Mobarry et al.			
		2,238,008	04-1941	E.W. Beck et al.			
		2,270,517	01-1942	A. Drucker			
		2,326,970	08-1943	K. Rantsch			
		2,552,185	05-1951	G.J. Koch			
		2,803,163	08-1957	H. Ulffers			
		3,166,625	01-1965	C.H. Brumley			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		6,231,198 B1	05-2001	Foo		
		4,475,027	10-1984	Pressley		
		4,497,015	01-1985	Konno et al.		
		4,701,023	10-1987	Hager et al.		
		4,769,750	09-1988	Matsumoto et al.		
		4,884,869	12-1989	Uemura		
		5,237,367	08-1993	Kudo		
		5,440,423	08-1995	Ogura		
		5,459,547	10-1995	Shiozawa		
		2,225,485	12-1940	K. Rantsch		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		

EXAMINER	DATE CONSIDERED
----------	-----------------

Examiner:	Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
-----------	---

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		5,339,346	08-1994	White			
		5,361,292	11-1994	Sweatt			
		5,815,310	09-1998	Williamson			
		5,581,605	12-1996	Murakami et al.			
		5,894,341	04-1999	Nishi et al.			
		5,891,806	04-1999	Shibuya et al.			
		5,864,388	01-1999	Shima et al.			
		5,724,122	03-1998	Oskotsky			
		5,631,721	05-1997	Stanton et al.			
		4,931,830	06-1990	Suwa et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
		JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, vol. 62, no. 12, December 1972, "Formulation of a Reflector-Design Problem for a Lighting Fixture", J.S. SCHRUBEN, pages 1498-1501.					
		"Computer-Aided Optical Design of Illuminating and Irradiating Devices", O. KUSCH, ASLAN Publishing House, Moscow 1993, Chapter 3, pp. 145-173.					
		APPLIED OPTICS, vol. 35, no. 10, April 1996, "Tailored reflectors for illumination", D. JENKINS et al., pages 1669-1672.					
EXAMINER				DATE CONSIDERED			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		4,682,885	07-1987	Torigoe			
		5,245,384	09-1993	Mori			
		5,315,629	05-1994	Jewell et al.			
		5,534,970	07-1996	Nakashima et al.			
		5,703,675	12-1997	Hirukawa et al.			
		5,737,137	04-1998	Cohen et al.			
		6,249,382 B1	06-2001	Komatsuda			
		6,281,967 B1	08-2001	Kudo			
		6,295,122 B1	09-2001	Schultz et al.			
		6,480,262 B1	11-2002	Tanaka et al.			
		2001/0012101 A1	08-2001	Mulkens			
		2001/0043408 A1	11-2001	Wangler et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		JP-A-60-232552	11-1985	Japan (with abstract)			
		JP-A-62-2540	01-1987	Japan (with translation)			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105193.07		APPLICATION NO. Rule 53(b) Continuation of 10/090,731 filed March 6, 2002	
				INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			
				APPLICANT(S) Hideki KOMATSUDA			
				FILING DATE October 27, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		5,222,112	06-1993	Terasawa et al.			
		5,636,003	06-1997	Tanitsu et al.			
		5,896,438	04-1999	Miyake et al.			
		6,038,279	03-2000	Miyake et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		JP-A-4-157469	05-1992	Japan			
		JP-A-5-180996	07-1993	Japan			
		JP-A-5-283320	10-1993	Japan			
		JP-A-7-94396	04-1995	Japan			
		JP-A-8-5796	01-1996	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER				DATE CONSIDERED			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							